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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,494	06/07/2004	Gerrit Jan Barend Assink	TS 0715 USA P	1658
23632	7590 05/24/2005		EXAMINER	
SHELL OIL COMPANY			LANGEL, WAYNE A	
P O BOX 2463 HOUSTON, TX 772522463			ART UNIT	PAPER NUMBER
		•	1754	
			DATE MAILED: 05/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			1	,			
Office Action Summary		Application No.	Applicant(s)				
		10/600,494	ASSINK ET AL.				
		Examiner	Art Unit	1			
		Wayne Langel	1754				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 22 April 2005.							
	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
·	,—						
, —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition (	of Claims						
4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	4) Claim(s) 9-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 9-34 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.						
Application I	Papers						
9)□ The	specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Rep	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) <u></u> The	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority unde	er 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
_	References Cited (PTO-892)	4) Interview Summary					
2) Notice of D	Oraftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					
	n Disclosure Statement(s) (PTO-1449 or PTO/SB/08) s)/Mail Date	6) Other:	atent Application (FTO-132)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/600,494

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-34 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over EP 0303438, for the reasons given in the last Office Action. Applicant's argument, that EP 0303438 does not disclose a specific arrangement comprising a first layer which is, during normal operation, located at an upstream end of the fixed arrangement and comprises as a catalytically active metal or precursor thereof rhodium or a rhodium compound, and a second layer adjacent to the first layer with substantially no gap between the first layer and the second layer which is, during normal operation, located downstream of the first layer, the second layer comprising as a catalytically active metal or precursor thereof iridium, osmium or platinum, is not convincing. EP 0303438 discloses at col. 7, lines 37-44 that catalyst discs 54 may consist of platinum wire mesh coated with rhodium. The platinum and rhodium in such platinum wire mesh would constitute "layers" of the platinum and rhodium and a "fixed arrangement". Moreover, EP 0303438 discloses at col. 7, lines 21-36 that catalyst discs 54 may comprise thin sheets coated with mixtures of rhodium and

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iridium, osmium or platinum. Part of such mixture is considered to constitute a layer of rhodium, while another part is considered to constitute a layer of iridium, osmium or platinum, and would be in the form of a "fixed arrangement". In any event, it would be obvious to employ such layers of metals, since EP 0303438 discloses that these metals are catalytically active and may be in the form of thin sheets. Applicant's argument, that the present invention results in catalyst with a slower deactivation rate than a catalyst comprising a combination of catalytically active metals that are alone or combined in a single layer, is not convincing, since the deactivation rate of the catalyst recited in applicant's claims would not necessarily be any lower than the deactivation rate of the catalyst of EP 0303438.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Mondays to Fridays from 8 to 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wayne Langel Primary Examiner Art Unit 1754